CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.14/KRIDL/CEMENT/2012-13

Date: 12.03.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager (West),** KRIDL, Bangalore.
NAME OF THE WORK	:	Improvements to roads & drains at Church Road left side at Manjunatha Nagara in Bagalagunte Ward No. 14, BBMP, Bangalore.
REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/2012-13 Dated: 08.03.2013
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	190 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	485 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

Note:

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಟಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಸಾಗಲಗುಂಟೆ, ಬೆಂಗಳೂರು - 560 073

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Job No.: CTCE/BBMP/W.No.14/KRIDL/SAND/2012-13 : 12.03.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Improvements to roads & drains at Church Road left side at Manjunatha Nagara in Bagalagunte Ward No. 14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2012-13 Dated: 08.03.2013

Date of Testing : 12.03.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	92	4.60	4.60	95.4	90-100
2.36	273	13.65	18.25	81.8	75-100
1.18	412	20.60	38.85	61.2	55-90
600 Micron	436	21.80	60.65	39.4	35-59
300 Micron	485	24.25	84.90	15.1	8-30
150 Micron	187	9.35	94.25	5.8	0-10

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Job No.: CTCE/BBMP/W.No.14/KRIDL/AGG/2012-13 : 12.03.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Improvements to roads & drains at Church Road left side at Manjunatha Nagara in Bagalagunte Ward No. 14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2012-13 Dated: 08.03.2013

Date of Testing : 12.03.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **20000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	592	2.96	2.96	97.04	95-100
20	11274	56.37	59.33	40.67	30-70
10	5695	28.48	87.81	12.20	10-35
4.75	2152	10.76	98.57	1.43	0-5

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Job No.: CTCE/BBMP/W.No.14/KRIDL/STEEL/2012-13 15.03.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of the work	:	Improvements to roads & drains at Church Road left side at Manjunatha Nagara in Bagalagunte Ward No. 14, BBMP, Bangalore.
Reference	:	BBMP/DZ/AEE/TDSD/PR/2012-13 Dated: 08.03.2013
Date of Test	:	15.03.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	512	546	12.45	O.K	O.K
2	10	0.62	515	549	12.80	O.K	O.K

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Job No.: CTCE/BBMP/W.No.14/KRIDL/CUBE/2012-13

18.04.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager (West),** KRIDL, Bangalore.
Name of the work	: Improvements to roads & drains at Church Road left side at Manjunatha Nagara in Bagalagunte Ward No. 14, BBMP, Bangalore.
Reference	: BBMP/DZ/AEE/TDSD/PR/2012-13 Dated: 08.03.2013
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.03.2013	18.04.2013	8.137	475.8	21.15
2	21.03.2013	18.04.2013	8.216	488.6	21.72
3	21.03.2013	18.04.2013	8.324	498.2	22.14

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Job No.: CTCE/BBMP/W.No.14/KRIDL/CUBE/2012-13 22.04.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager (West),** KRIDL, Bangalore.
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Reference	: BBMP/DZ/AEE/TDSD/PR/2012-13 Dated: 08.03.2013
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.03.2013	22.04.2013	8.184	485.6	21.58
2	25.03.2013	22.04.2013	8.253	497.4	22.11
3	25.03.2013	22.04.2013	8.357	516.2	22.94

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